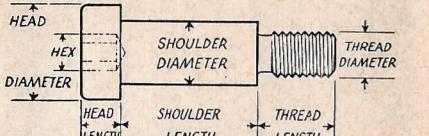


Allen Socket Head Shoulder Screw

Body and Head Ground to Close Tolerances



List prices
Per 100
Screws

One key
furnished
with each
25 Screws

	SHOULDER LENGTH	3/8	1/2	5/8	3/4
1	\$11.25	\$15.35			
1 1/4	12.50	16.90	\$24.70		
1 1/2	13.75	18.45	26.90	\$28.80	
1 3/4	15.00	20.00	29.10	31.60	
2	16.25	21.55	31.25	34.40	
2 1/4	17.50	23.10	33.45	37.25	
2 1/2	18.75	24.70	35.60	40.05	
2 3/4	20.00	26.25	37.85	42.85	
3	21.25	27.80	40.00	45.65	
3 1/4	22.50	29.35	42.20	48.45	
3 1/2	23.75	30.95	44.40	51.25	
3 3/4	25.00	32.50	46.60	54.10	
4	26.25	34.05	48.75	56.90	
4 1/4		35.60	50.95	59.75	
4 1/2		37.20	53.15	62.55	
4 3/4		38.75	55.35	65.35	
5		40.30	57.50	68.15	
5 1/2			61.90	73.80	
6			66.25	79.40	
6 1/2				90.65	
7				101.90	

Thread Diam.	5/16-18	3/8-16	1/2-13	5/8-11
Thread Length	1/2	5/8	3/4	7/8
Head Diam.	9/16	3/4	1/8	1
Head Length	1/4	5/16	3/8	1/2
Hexagon	3/16	1/4	5/16	3/8
Extra { Short Keys	.05	.07	.10	.15
Long Keys	.06	.08	.12	.20

Sizes other than listed can be furnished. Prices on application.

Allen Screwdriver Style Keys

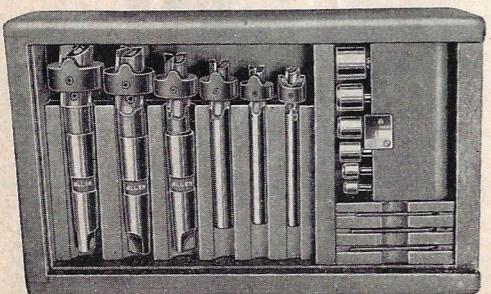
Seven blade diameters from .050 to $\frac{3}{16}$ ". Prices including 3 reversible, renewable blades from \$1.00 to \$1.25 List.



Allen 'T' Handle Keys
Made in 9 hex sizes from $\frac{3}{32}$ " to $\frac{1}{2}$ " with prices ranging from \$1.00 to \$1.75 List each.



ALLEN Knurled Head Ratchet Wrench Set No. 611
Made in 4 hex sizes for No. 8 to $\frac{5}{16}$ " set screws and Nos. 4 to 10 cap screws.
List Price \$1.25

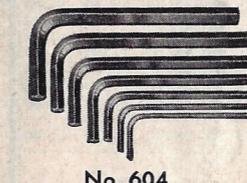
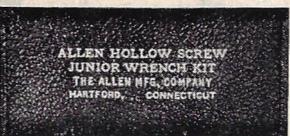
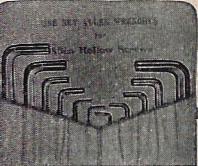


ALLEN COUNTERBORES

Set of six includes $\frac{1}{4}$ ", $\frac{5}{16}$ ", $\frac{3}{8}$ ", $\frac{7}{16}$ ", $\frac{1}{2}$ ", $\frac{5}{8}$ " diameters as most commonly used. Cutter parts made from high speed steel. Removable pilots for easy grinding. Will cut counterbore for screw head .005 to .010" larger than head, preventing binding. Adjustable collar governs depth of hole — a new feature. LIST PRCE \$43.00

Allen Key Kit No. 603

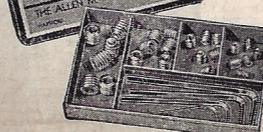
This handy kit contains a complete set of 11 short arm normalized hexagonal keys which fit all screws up to $1\frac{1}{4}$ " set in diameter. List Price \$1.25.



Junior Key Kit

Seven Allen Keys are included in this strong leather envelope. They fit the hex. holes of sizes No. 8, 10, $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{1}{2}$ and $\frac{5}{8}$ " set screws and Nos. 4, 5, 6, 8, 10, $\frac{1}{4}$ and $\frac{5}{16}$ " cap screws.

List Price \$0.50

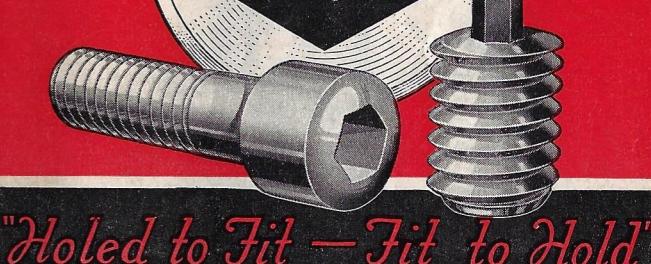
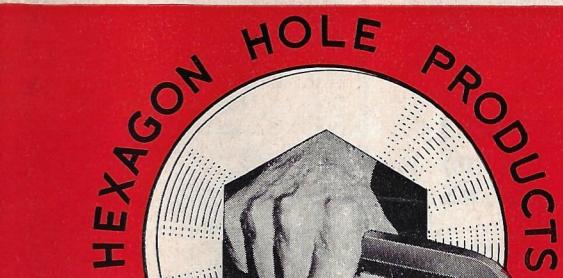


Allen Service Kit No. 601

This neat compartment box contains an assortment of Allen Hollow Set Screws in sizes No. 10, $\frac{1}{4}$, $\frac{5}{16}$ and $\frac{3}{8}$ " with keys to fit. (Keys also fit cap screws in sizes No. 3, 6, 8, 10 and $\frac{1}{4}$).

List Price \$1.25

Allen HOLLOW SCREWS



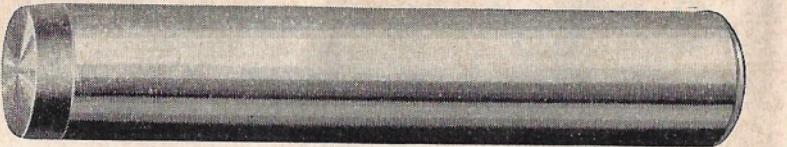
Distributed By

Syracuse Supply Co.
Syracuse, N. Y.

THE ALLEN MFG. CO. HARTFORD, CONN.

Circ. No. 118-32-7-38

PRINTED
IN
U.S.A.



ALLEN DOWEL PINS for DIE MAKERS

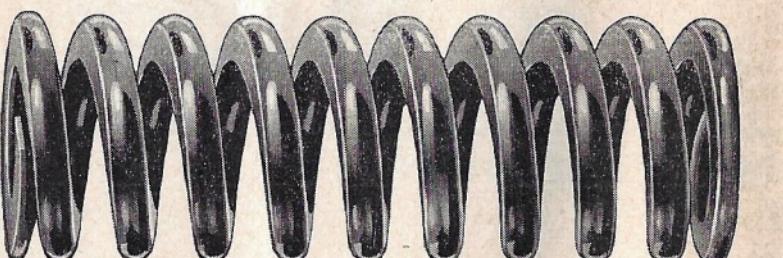
Specially Heat Treated and Ground

Made in 2 sizes; .0002 over base sizes and .001 over base sizes. Unless specified the .0002 oversize will be furnished. Made from special analysis steel, hardened. Stocked in 21 lengths from $\frac{1}{2}$ " to 4"; 10 diameters from $\frac{1}{8}$ " to $\frac{7}{8}$ ".

ALLEN DIE SPRINGS

Ends Squared — Ground Flat

Flat, rounded edge springs stocked in 83 sizes which cover all standard requirements for most die and machine shop use. Accurate and durable.



Allen Process Pipe Plugs

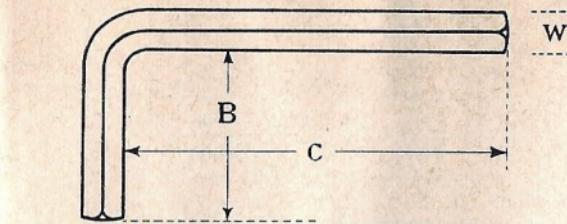


Specified for airplane motors where the performance of the plane and the life of the aviator depends upon the plug. Leading automobile and refrigerating engineers, engine builders, steam equipment manufacturers, etc., demand Allens where positive dependability is needed. The sockets are accurate, uniform and perfectly formed all the way down, so the key always "bottoms" in the plug, fitting snugly. The hexagon socket of the Allen takes the tempered alloy steel Allen key with the same perfect grip as an Allen Safety Set Screw.

Briggs Standard Pipe Thread	List Price Per C	Length of Plug	Size of Hex Opening	Threads Per Inch	Nominal Diam. Large End	Each Extra Key
$\frac{1}{8}$	\$ 5.00	$\frac{3}{8}$	$\frac{3}{16}$	27	.405	.05
$\frac{1}{4}$	7.00	$\frac{1}{2}$	$\frac{1}{4}$	18	.540	.07
$\frac{3}{8}$	10.00	$\frac{9}{16}$	$\frac{5}{16}$	18	.675	.10
$\frac{1}{2}$	12.00	$\frac{9}{16}$	$\frac{3}{8}$	14	.840	.15
$\frac{3}{4}$	20.00	$\frac{5}{8}$	$\frac{9}{16}$	14	1.050	.35
1	30.00	$\frac{3}{4}$	$\frac{5}{8}$	$1\frac{1}{2}$	1.315	.45

Also Furnished in Duralumin, Bronze, Brass, Stainless Steel or any other metal required. Sizes other than listed can be furnished. Prices on application.

4 Keys free with each 100 plugs.



ALLEN NORMALIZED KEY DIMENSIONS INTERCHANGEABILITY

Good keys reinforce the service of Allen Hollow Screws. Special analysis alloy steel is tempered to avoid brittleness and each key is scientifically heat-treated to reduce the wear on the edges which engage in the sockets.

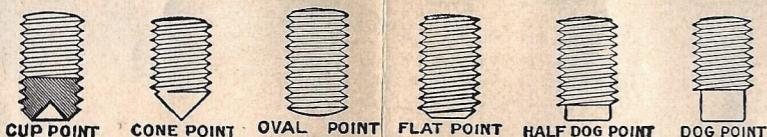
Key Hex. Diameter W	Screw Diameter				B	C	Short Arm Series			Long Arm Series		Recommended Key Handle Extensions Set	Cap	
	Set	Cap	Shoulder	Pipe Plugs			List Price	No. in Pkg.	Weight lbs.	oz.	C	List Price		
.050 fits	4				$\frac{1}{2}$	$1\frac{3}{4}$	.03	100	4	3	.04		
$\frac{1}{16}$ "	5-6				$\frac{1}{2}$	$1\frac{3}{4}$	.03	100	5	3	.04		
$\frac{5}{64}$ "	8	4			$\frac{39}{64}$	$1\frac{3}{4}$	.03	100	8	$3\frac{3}{16}$	.04		
$\frac{3}{32}$ "	10	5-6			$2\frac{1}{32}$	2	.03	100	10	$3\frac{3}{8}$	.04		
$\frac{1}{8}$ "	$\frac{1}{4}$	8			$\frac{3}{4}$	$2\frac{1}{4}$	.03	100	1	$3\frac{3}{4}$	.04		
$\frac{5}{32}$ "	$\frac{5}{16}$	10			$2\frac{7}{32}$	$2\frac{1}{2}$	.04	100	2	$4\frac{1}{8}$	.05	6	5
$\frac{3}{16}$ "	$\frac{3}{8}$	$\frac{1}{4}$			$15\frac{16}{32}$	$2\frac{3}{4}$	.05	100	3	$4\frac{1}{2}$	.06	$7\frac{3}{4}$	$7\frac{1}{4}$
$\frac{7}{32}$ "	$\frac{7}{16}$	$\frac{5}{16}$	$\frac{3}{8}$		$1\frac{1}{32}$	3	.06	50	2	$4\frac{7}{8}$	.07	$8\frac{1}{2}$	8
$\frac{1}{4}$ "	$\frac{1}{2}$		$\frac{1}{2}$		$1\frac{1}{8}$	$3\frac{1}{4}$.07	50	3	6	$5\frac{1}{4}$.08	9	12
$\frac{5}{16}$ "	$\frac{5}{8}$	$\frac{3}{8}, \frac{7}{16}$	$\frac{5}{8}$		$1\frac{1}{4}$	$3\frac{3}{4}$.10	50	6	6	.12	14	20	$12\frac{3}{4}$
$\frac{3}{8}$ "	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$		$1\frac{3}{8}$	$4\frac{1}{4}$.15	25	5	$6\frac{3}{4}$.20	20	20	
$\frac{1}{2}$ "	$\frac{7}{8}$	$\frac{5}{8}$	$\frac{5}{8}$		$1\frac{5}{8}$	$5\frac{1}{4}$.25	25	10	12	.35	24	30	
$\frac{9}{16}$ "	$1-1\frac{1}{8}$	$\frac{3}{4}, \frac{7}{8}$			$1\frac{3}{4}$	$5\frac{3}{4}$.35	25	15	9	.50	30	36	
$\frac{5}{8}$ "	$1\frac{1}{4}$	1			$1\frac{7}{8}$	$6\frac{1}{4}$.45	25	19	10	$9\frac{3}{4}$.65		
$\frac{3}{4}$ "	$1\frac{1}{2}$	$1\frac{1}{8}, 1\frac{1}{4}$			$2\frac{1}{4}$	$7\frac{1}{4}$	.65	12	16	$11\frac{1}{4}$	.95		
1"		$1\frac{1}{2}$	$1\frac{1}{2}$		$2\frac{5}{8}$	$9\frac{1}{4}$	1.05	5	15	$14\frac{1}{4}$	1.65			

Short arm series furnished unless otherwise specified.

In ordering keys specify diameter size of screw for which key is required.

POINT AND THREAD INFORMATION FOR SET SCREWS

**Points
AVAILABLE AS FOLLOWS**



*"Starred" in Black Type

Not Starred Black Type

Type Printed in Red

STOCK	STOCK	STOCK	STOCK	STOCK	Special
STOCK	Special	Special	Special	Special	Special
Special	Special	Special	Special	Special	Special

**Threads
AVAILABLE AS FOLLOWS**

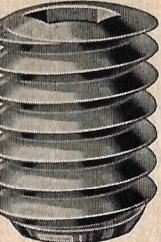
Nat. Coarse (N C)
Nat. Fine (N F)
Stock - Except
Dog Point (Spec.)

Nat. Coarse (N C)
Cup Point Stock
Others Special

All Threads Are Special

METALS: CHROME - MOLYBDENUM STEEL is standard. Brass, Hardware Bronze, Everdur, Duralumin, Monel Metal, Stainless Steel and Nickel furnished if desired. Prices on application.

Allen Safety Hollow Set Screws



**LIST PRICES
PER 100
SCREWS**

4 Keys Free
with Each
100 Screws

NUMBER AND DIAMETER OF SCREWS (Specify diameter first)												
Diameter	No. 4	No. 5	No. 6	1/4	5/16	3/8	7/16	1/2	5/8	3/4	7/8	1
Diam. Max.	.112	.125	.138	.164	.190							
1/8	3.90	4.00	4.10	*4.20								
3/16	4.00	4.10	4.20	*4.30	*4.70	*4.75						
1/4	4.10	4.20	4.30	*4.40	*4.75	*4.80	*4.85	*4.90				
5/16	4.20	4.30	4.40	*4.50	*4.80	*4.85	*4.90	*4.95				
3/8	4.30	4.40	4.50	*4.60	*4.85	*4.90	*4.95	*5.00				
7/16	4.40	4.50	4.60	*4.70	*4.90	*4.95	*5.00	*5.23	*6.00	*6.90		
1/2	4.50	4.60	4.70	*4.80	*4.95	*5.00	*5.20	*5.45	*6.25	*7.00	*9.80	
5/8	4.70	4.80	4.90	*5.00	*5.15	*5.35	*5.60	*5.90	*6.75	*7.60	*10.00	11.90
3/4		5.00	5.35	*5.45	*5.70	*6.00	*6.35	*7.25	*8.20	*10.70	12.00	14.90
7/8			5.55	*5.65	*5.75	*6.05	*6.40	*6.80	*7.75	*8.80	*11.40	12.90
1											15.00	20.00
LENGTH OVER ALL												
1/8												
3/16												
1/4												
5/16												
3/8												
7/16												
1/2												
5/8												
3/4												
7/8												
1												
Add for each 1/4" length not listed	1.20	1.20	1.20	1.20	1.20	1.40	1.60	1.80	2.00	2.40	2.80	3.60
Amer. Std. Coarse Threads per in.	40	40	32	32	24	20	18	16	14	13	11	10
Amer. Std. Fine Threads per in.	48	44	40	36	32	28	24	24	20	20	18	16
Size of Hex. Hole	.050	1/16	1/16	5/64	3/32	1/8	5/32	3/16	7/32	1/4	5/16	3/8
Extra Keys	{ Short	.03	.03	.03	.03	.03	.04	.05	.06	.07	.10	.15
	{ Long	.04	.04	.04	.04	.04	.05	.06	.07	.08	.12	.20

ITEMS (*) STARRED ARE STANDARD and are carried in stock in both American Standard Fine (S.A.E.) and American Standard Coarse (U. S. S.) Threads, and in cup, oval, flat, cone and half dog points.

ITEMS NOT STARRED printed in black type are standard in American Standard Coarse (U. S. S.) Threads cup point only, and are carried in stock.

ITEMS PRINTED IN RED ARE NOT CARRIED IN STOCK, but are made to order in coarse or fine threads, and in any points at above prices in quantities of five hundred pieces of a size. For less than five hundred, prices on application.

All other diameters, lengths, threads, points, etc., are special. Set up charges and extra prices on application.

DARDELET THREADS and WHITWORTH THREADS can be furnished — prices on application.

Plating charge 3 1/2 cents per lb. \$2.00 net minimum.

Class 3 fit is standard.

If desired Allen can supply locking set screws.

Prices subject to change without notice.

ALLEN HOLLOW SCREWS obtain their tremendous strength and hex. hole accuracy and uniformity from the exclusive ALLEN COLD DRAWING PROCESS. By TONS PRESSURE even on the smallest screws, the cold steel of the "blanks" (machined from solid bar stock) is compressed around a hex. punch, drawn through a die to the finished size — simultaneously forming the deep, clean socket.

The ALLEN process leaves NO CHIPS in the bottom of the hole; no wasted length. At one stroke it insures perfect fit of the key — for solid leverage — and increased density of the socket-wall.

The strength of the cold-drawn sockets is reinforced by special and scientific heat-treating, applied individually to the various styles and sizes of sockets in the ALLEN products.

The ALLEN is industry's choice when strict specifications call for absolute dependability.



LIST PRICES PER 100

4 Keys Free with Each 100 Screws

Diameter	NUMBER AND DIAMETER OF SCREWS (Specify diameter first)											
	No. 4	No. 5	No. 6	1/4	5/16	3/8	7/16	1/2	5/8	3/4	7/8	1
Body Diam. Max.	.112	.125	.138	.164	.190							
1/4	4.40	4.50	4.60	*4.90	*4.90	*5.25	*6.25					
5/16	4.60	4.70	4.80	*5.10	*5.10	*5.50	*6.50	*7.40	*8.90	*10.20		
3/8	5.00	5.10	5.20	*5.30	*5.30	*5.75	*6.75	*7.70	*9.20	*10.60		
7/16												
1/2	5.20	5.30	5.40	*5.50	*5.50	*6.00	*7.00	*8.00	*9.50	*11.00		
5/8				*6.00	*6.00	*6.50	*7.50	*8.50	*10.00	*11.75		
1				*6.25	*6.25	*6.75	*7.75	*9.00	*10.50	*12.25	*18.00	
LENGTH UNDER HEAD												
1/4												
5/16												
3/8												
7/16												
1/2												
5/8												
3/4												
7/8												
1												
Add for each 1/4" length not listed												
1/4	1.50	1.50	1.50	1.50	1.50	1.50	1.50	2.00	2.00	2.50	3.50	4.50
5/16												
3/8												
7/16												
1/2												
5/8												
3/4												
7/8												
1												
Amer. Std. Coarse Threads per in.	40	40	32	32	24	20	18	16	14	13	11	10
Amer. Std. Fine Threads per in.	48	44	40	36	32	28	24	24	20	18	16	14
Max. Head Diam.	.174	.196	.217	.265	.5/16	3/8	7/16	5/8	3/4	7/8	1 1/8	1 5/16
Max. Head Height	.112	.125	.138	.164	.190	1/4	5/16	3/8	7/16	5/8	3/4	7/8
Size of Hex. Hole	5/64	3/32	5/32	1/8	5/32	3/16	7/32	5/16	3/8	1/2	9/16	5/8
Extra Keys	{ Short	.03	.03	.03	.03	.04	.05	.06	.10	.15	.25	.35
	{ Long	.04	.04	.04	.04	.05	.06	.07	.12	.20	.35	.50

CAP SCREWS STANDARD AND STOCKED IN FLAT POINT ONLY

ITEMS (*) STARRED ARE STANDARD and are carried in stock in both American Standard Fine (S. A. E.) and American Standard Coarse (U. S. S.) Threads (flat point).

ITEMS NOT STARRED printed in black type are standard in American Standard Coarse (U. S. S.) Threads only, and are carried in stock.

ITEMS PRINTED IN RED ARE NOT CARRIED IN STOCK, but are made to